8113 West Sherman Street Phoenix, AZ 85043-3000 Tel: 602.233.9166 Fax: 623.936.9164

March 9, 2000

Mr. Gerald Thompson Environmental Assistant Alaskan Copper Works P. O. Box 3546 Seattle, WA 98124-3546

Dear Mr. Thompson:

Enclosed is the appropriate copy of your company's Hazardous Waste Manifest resulting from the transfer of recyclable materials to World Resources Company.

Please note that in accordance with 40 CFR §262.40, this copy of the manifest must be retained as a record for at least three (3) years from the date the waste was accepted by the initial transporter.

If you have any questions, please feel free to give us a call.

Sincerely,

World Resources Company

Manifest Coordinator

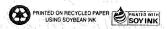
**Enclosures** 

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P.C	ASKAN COPPER WORKS D. Box 3546, Seattle,	WA 98124	206-648-8	3453		B. S	tate Gene	erator's l	ID .	deservices
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Style CF 17 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

EPA Form 8700-22 (Rev. 94) Previous editions are obsolete.

ORIGINAL-RETURN TO GENERATOR



TYME 12:04 PM
DATE 03/03/00
SUBTOTAL 16997 LB 8.5 OTONS
TOTAL 16997 LB
WORLD RESOURCES CO.
12:04 PM 03/03/00
0 1b

TIME 11:95 AM
DATE 03/03/00
SUBTOTAL 4418 LB
TOTAL 4418 LB
WORLD RESOURCES CO.
11:95 AM 03/03/00
0 lb

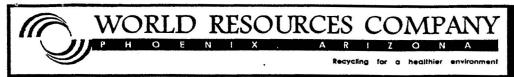
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81	113 West Sherman Street Doenix, Arizona 85043		A.Z.D.9.8.0.7.3.5		10 100	icility's Phone	800-9	72-1956
11. US	DOT Description (Including Proper S	hipping Name, H	azard Class and ID Number)	12. Cont	ainers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
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Style CF 17 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

**GENERATOR COPY** 





LAND DISPOSAL RESTRICTION NOTICE

**D007** 

**EFFECTIVE 11/09/98** 

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8).

Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well—requires the retention period to be extended further in specified cases.]

TO: WORLD RESOURCES COMPANY	8113 Wes	st Sherman Street, Ph	oenix AZ 85043-3000	
FROM: Alaskani Capper works	PO.T.		Seattle WA 9	8124
MANIFEST COOOZ		DATE OF 2	2-29-00	
This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268.	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards	
The applicable land disposal	D007	non-wastewater	40 CFR §268.40	Ī
restriction information, provided				1
in accordance with 40 CFR §268.7(a)(2), is as shown in this				4
table:				
SIGNATURE: Signature: NAME O 1		TITLE: ENVIRO.	tech	
PRINTED: GERELL A. Thom	1227	DATE:	7-00	

# Instructions for the Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

OTHER DE HORLD RESOURCES COMPANY, REVISED 11/08/98, All rights reserved 22/01/1/1/98



LAND DISPOSAL RESTRICTION NOTICE

F006

SPECIME II/OF

[A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well—requires the retention period to be extended further in specified cases.]

To: WORLD RESOURCES COMPANY		8113 West Sherman Street, Phoenix AZ 85043-3000			
From: COMPANY NAME:  Alaskan Copper Works		COMPANY ADDRESS: P.O. Box 3546, Seattle, WA 98124			
MANIFEST NUMBER:	SI	DATE OF HIPMENT :	2-29-0	Ð	
This shipment of material is subject to the land disposal restrictions of 40 CFR	EPA Materia Number	al	Treatability Group	CFR Reference for Treatment Standards	
Part 268. The applicable land disposal restriction information, provided in	F006	n	on-wastewater	40 CFR §268.40	
accordance with 40 CFR §268.7(a)(2), is as shown in this table:					
SIGNATURE:		TITLE:	ENUIRO, T	tech	
NAME PRINTED: BENGIL A. Th	ompson	DATE:	2-29	-00	

# Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice (as stated in 40 CFR §268.7(a)(2)).

An F006 designation on the LDRN includes the following constituents: cadmium (D006), chromium (D007), lead (D008), silver (D011), cyanide, and nickel. However, the designation does not include arsenic (D004), barium (D005), mercury (D009), or selenium (D010). If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below (as stated in 40 CFR §268.9).

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then no additional entry is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) must be added to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE			
Metal	Concentration Level	EPA Material Number	Treatability ; Group	CFR Reference for Treatment Standards	
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40	
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40	
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40	
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40	

**7006 GENERATORS** 

# **Material Safety Data Sheet**

D007 Recyclable Material

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street Phoenix, Arizona 85043

Tel: 1-602-233-9166 Fax: 602-936-9164

Issued: 3/18/94

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-424-9300 (Use CHEMTREC Company Code "WORR") For calls from other countries call: 202-483-7616 Collect

#### Section 1

#### PRODUCT - MATERIAL IDENTIFICATION

Environmental Protection Agency (EPA) Waste Classification: D007 Generic Name: Chromium metal bearing sludge

CAS Number:

Chemical Family: Non-Ferrous metal particulates Synonym: Metallic Residues From High Frequency Burning Table DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007) DOT Hazard Class: 9; Packing Group: III DOT Identification Number: NA 3077

**DOT Emergency Response Guide 31 Applies** 

#### Section 2

#### HAZARDOUS INGREDIENTS Toxicology: **ACGIH-TLY** No Data Available 2.75 mg/kg (Rat, Oral)

Ingredient: Aluminum 7429-90-5 0-5 10 mg/m 3 7440-47-3 Chromium 0-15 0.5 mg/m3 Copper 7440-50-8 0-10 0.35 mg/kg (Mouse, Oral) 1.0 mg/m3 7440-02-0 Nickel 0-10 1.0 mg/m3 No Data Available Zinc 7440-66-6 0-5 none established No Data Available

Content %:

#### Section 3

#### PHYSICAL AND REACTIVITY DATA

Description: Moist, Sandy consistency

Brown to Black colored Water Content 10-20% by weight

Specific Gravity: 2.0 to 3.0

Solubility: Insoluble in water

Density: 100 to 150 lbs/cu/ft

Incompatible Reactivity: Extreme heat sources,

Vapor Pressure: Insignificant

Stability: Avoid contact with acids, extreme heat

Polymerization: Will not occur Boiling Point: Above 2000°C Melting Point: Above 1000°C

pH: 7.0 to 10.0 Odor: Nil

#### Section 4

#### AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions Special Firefighting Procedures: Dry Chemical

Oxidation: Non-oxidizing Explosive: Non-explosive

Product Decomposition. . . . (Due to Fire or Explosion): Hydrogen gas, ZnO ( under extreme external heat) Fire Diamond



Section 5

Listed Carcinogen component: Chromium, Nickel Toxicology: See Sec. 2 (Chromium, Nickel ) Route of Entry: Inhalation and Ingestion

#### HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems-blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

#### Section 7

#### PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

#### Section 8

#### CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required. Eye Protection: Safety Glasses recommended. Hand Protection: Gloves recommended.

#### Section 9

#### GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number.

Telephone: Seattle Wa 98134 Company Name and Address: .

Signature:

AZF-WRC 3/94

#### MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME
Hazardous waste, solid, n.o.s. (D007)

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

## TANTO X 3950: ELT = 10 177; EMUES WORF | YENATT MODERICIUM EMMERCHANO MENTENDE CAMBRIME WAS REIMMA CONTROL DOCUMENT OF THE CONTROL OF THE CON

#### POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- . Some may polymerize (P) explosively when heated or involved in a fire
- . Containers may explode when heated.
- . Some may be transported hot.

#### HEALTH

- Inhalation of material may be harmful.
- Contact may cause bums to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- · Fire may produce irritating, corrosive and/or toxic gases.
- · Runoff from fire control may cause pollution.

#### PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORR").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- . Stay upwind.

#### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

#### EVACUATION

#### Fire

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.

#### **EMERGENCY RESPONSE**

#### FIRE

#### Small Fires

Dry chemical, CO2, water spray or regular foam.

#### Large Fires:

- Water spray, log or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scanar spilled material with high pressure water streams.
- Dika fire-control water for later disposal.

#### Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from the ends of tanks.

#### SPILL OR LEAK

- . Do not touch or walk through spilled material.
- . Stoo leak if you can do It without risk.
- · Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

#### Small Dry Spills

- With clean shovel, place material into clean, dry container and cover locsely; move containers from spill area.
   Small Spills
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
   Large Spills
- · Dike far shead of liquid soll for later disposal.
- · Cover powder spill with plastic sheet or tarp to minimize soreading.
- Prevent entry into waterways, sewers, basements or confined areas.

## FIRST AID

- . Move victim to fresh air.
- · Call emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and Isolate contaminated clothing and shoes.
- . In case of contact with substance, immediately flush skin or eves with running water for at least 20 minutes.
- . Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

AJ WOC VILTE

# Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company 8113 West Sherman Street

Phoenix, Arizona 85043-3000 Tele: 1-602-233-9166 Fax: 1-623-936-9164

lesued: 8/7/90 Revised: 9/18/96 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-424-3300

(Use Chemtrec Company Code WORR) For calls from other countries call: 202-483-7616 Collect

#### Section t

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Studge DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)
Environmental Protection Agency (EPA) Waste Classification: F006

DOT Hazard Class: 9; Packing Group: III
DOT Identification Number: NA 3077

Chemical Family: Metallic (Hydroxide) Precipitates Synonym: Non-ferrous Metal Hydroxide Filter Cake PRODUCT - MATERIAL IDENTIFICATION

Guide 171 of the North American Emergency Response Guidebook Applies

€	Section 2			HAZARD	IOUS INGREDIENTS
	Ingradient: Copper Hydroxide Nickel Hydroxide Calcium Hydroxide Diatomacecus Earth	CAS Number: 20427-59-2 12054-48-7 1305-62-0 68855-54-9	Content %: 0-30 0-15 0-15 0-10	ACGIH-TLY  1.0 mg/m³ (Dust) 1.0 mg/m³ (Dust) 5.0 mg/m³ (Dust) 6.0 mg/m³ (Dust)	Toxicology: (rat, oral)  LD-50 1,000 mg/kg  LD-50 1,500 mg/kg  LD-50 7,340 mg/kg  LD-50 3,160 mg/kg

#### Section 3

Description: Soild, Clay-like Clumps, Gray/Green to Brown, Water Content 30-80%

Specific Gravity: 2.5 to 3.5 Solubility: Inscluble in water Density: 64 to 90 lbs/cuft

incompatible Reactivity: None Known

Vapor Pressure: Insignificant Stability: Avoid contact with acids Polymerization: Will not occur

PHYSICAL AND REACTIVITY DATA Boiling Point: Above 2600°C Meiling Point: Above 1800°C

pH: 7.0 to 10.0

Odor. Nil

#### Section 4 AND EXPLOSIONED AFA

Flashpoint: Nonflammable Special Firefighting Procedures: None

Oxidation: Non-oxidizing Explosive: Non-explosive Product Decomposition. . . . (Due to Fire or Explosion): None

NFPA Fire Diamond

HEALTH EFFECTS AND FIRST AID



Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide) . Route of Entry: Inhalation and Ingestion

Inhalation: Dust may imitate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Fare in industry. Induce verniting (do not induce verniting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may imitate eyes. Wash with copicus amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may initiate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kichey damage and metal-sensitive skin or skin lesions.

#### Section F

#### PRECAUTIONS FOR SAFE HANDLINGS

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and Storage:

Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to Spills: avoid inhalation or ingestion. Store in a dry area under cover from rain.

Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

#### Section 3

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required. CONTROL WEST

Eve Protection: Safety Glasses recommended. Hand Protection: Gloves recommended.

EGENERATION SAME THE CONTROL

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable

material listed on the attached Manifest Number:

206-382-8379 Telephone:

Company Name and Address:

Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124

Signature:

Recycled Paper

#### MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (F006)

NORTH AMERICAN EMERGENCY RESPONSE GUIDESOOK

# SECURE ENGREEMENT DE LA SECUE DE LA SECUE

#### POTENTIAL HAZARDS

## FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- · Some may polymerize (P) explosively when heated or involved in a fire.
- · Containers may explode when heated.
- Some may be transported hot.

#### HEALTH

- · Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Innaiation of Asbestos dust may have a damaging effect on the lungs.
- Fre may produce imitating, comosive and/or toxic cases.
- Puncif from fire control may cause collution.

#### PUBLIC SAFETY

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- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.

#### PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- · Structural firefighters' protective clothing will only provide limited protection.

#### EVACUATION

#### Fire

If zank, rail car or tank truck is involved in a fire, ISOLATE for SCO meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

#### **EMERGENCY RESPONSE**

#### FIRE

#### Small Fires

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

## Large Fires:

- Water soray, fcg or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- <u>Cike fire-control water for later disposal.</u>

#### Fire Involving Tanks:

- · Cool containers with flooding quantities-of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

#### SPILL OR LEAK

- . Do not touch or walk through spilled material.
- · Step leak if you can do it without risk.
- · Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

#### Small Dry Spills

- With clean shovel, place material into clean, dry container and cover locsely; move containers from spill area.

  Small Spills
- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
   Large Spills
- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tare to minimize spreading.
- Pravent entry into waterways, sewers, basements or confined areas.

#### FIRST AID

- Move victim to fresh air.
- Cail emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- . In case of contact with substance, immediately flush skin or eyes with copping water for at least 20 minutes.
- . Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Recycled TEM